We claim:

1. An expression construct, which comprises the nucleic acid sequence coding for a shuttle peptide construct which is processable by yeast cells, has the formula

(Sig-SP),

and comprises in 5'-3' orientation the nucleic acid sequences coding for
a) a signal peptide (Sig) processably linked to
b) at least one shuttle peptide (SP) secretable by said yeast cells.

2. An expression construct as claimed in claim 1, wherein the shuttle peptide construct (Sig-SP) is derived from polypeptide processed by yeasts of the genus Schizosaccharomyces, in particular by S. pombe.

3. An expression construct as claimed in either of the preceding claims, wherein the shuttle peptide construct (Sig-SP) is derived from a pheromone pre-protein of a yeast, said pheromone (Pher) being derivable from the pre-protein and secretable by N- and C-terminal processing.

4. An expression construct as claimed in claim 3, wherein the signal polypeptide (Sig) is the proteolytically removable native signal polypeptide of the pheromone pre-protein.

5. An expression construct as claimed in claim 4, wherein the C-terminally processed pheromone (Pher) encompasses a C-terminal protease cleavage site.

6. An expression construct as claimed in any of the preceding claims, furthermore comprising the nucleic acid sequence coding for a homologous or heterologous target protein (Targ) processably linked to the C-terminus of the shuttle peptide construct (Sig-SP).

7. An expression construct as claimed in any of the preceding claims, encompassing the nucleic acid sequence coding for a fusion protein which is processable by yeast cells and has the formula

$$Sig\text{-}L1_n\text{-}Pher\text{-}L2_m\text{-}Targ$$

in which
Sig, Pher and Targ are as defined above,

L1 and L2 are processable linkers and
n and m are independently of one another 0 or 1.

8. An expression construct as claimed in any of the preceding claims, wherein the nucleic acid sequence coding for the shuttle peptide construct (Sig-SP) encompasses a signal polypeptide-coding sequence according to SEQ ID NO: 3 or a functional equivalent thereof which is operatively linked to the nucleic acid sequence according to SEQ ID NO:5, coding for a mature pheromone protein (P factor), or to a functional equivalent thereof.

9. An expression construct as claimed in any of the preceding claims, wherein the nucleic acid sequence coding for the shuttle peptide construct encompasses a sequence according to SEQ ID NO:1, extended at the 3' end, where appropriate, by the sequence coding for a target protein (Targ).

10. An expression construct as claimed in any of the preceding claims, wherein the target protein is a hydrophobin, in particular a class I hydrophobin.

11. An expression construct as claimed in claim 10, wherein the hydrophobin is selected from among SEQ ID NO: 14 (DewA), SEQ ID NO:19 (RdlA) SEQ ID NO:20 (RdlB) SEQ ID NO:21 (HYP1) and SEQ ID NO: 22 (HYP4) or is encoded by a nucleic acid sequence according to SEQ ID NO:13.

12. An expression vector, encompassing an expression construct as claimed in any of the preceding claims which is operatively linked to at least one regulatory nucleic acid sequence.

13. A recombinant microorganism, comprising at least one expression vector as claimed in claim 12 or an expression construct as claimed in any of claims 1 to 11, where appropriate stably integrated into the host genome.

14. Microorganism as claimed in claim 13, selected from among yeasts.

15. A microorganism as claimed in claim 14, selected from among yeasts of the genus Schizosaccharomyces, in particular S. pombe.

16. A shuttle peptide construct (Sig-SP), processable by yeast cells and derived from a pheromone pre-protein of a yeast, wherein the pheromone is derivable from said pre-protein and secretable by N- and C-terminal processing.

17. A shuttle peptide construct as claimed in claim 16, comprising a signal polypeptide N-terminally processably linked to the C-terminally processed pheromone polypeptide.

18. A shuttle peptide construct as claimed in claim 17, wherein the signal polypeptide is the proteolytically removable native signal polypeptide of the pheromone pre-protein.

19. A shuttle peptide construct as claimed in claim 17, wherein the C-terminally processed pheromone polypeptide encompasses the C-terminal protease cleavage site.

20. A shuttle peptide construct as claimed in any of claims 16 to 19, encompassing an amino acid sequence as defined in SEQ ID NO:2 or a functional equivalent thereof.

21. A method for recombinant preparation of a target protein, which comprises culturing a microorganism as claimed in any of claims 13 to 15, expressing the nucleic acid sequence encoding said target protein and isolating the target protein secreted into the culture medium.

22. A method as claimed in claim 21, wherein the target protein is a hydrophobin as defined in claim 10 or 11.

23. A nucleic acid, coding for a shuttle peptide construct as claimed in any of claims 16 to 20.

24. A nucleic acid as defined in any of claims 1 to 11.

25. A hydrophobin, obtainable by a method as claimed in claim 22.

26. The use of a hydrophobin as claimed in claim 25 for surface treatment.

27. The use as claimed in claim 26, wherein the surface of objects selected from among glass, fibers, fabrics, leather, painted objects, films and facades is treated.

28. The use of a hydrophobin as defined in claim 10 or 11 for surface treatment of fibers, fabrics and leather.